Package ‘tidycountries’

September 12, 2024

Type Package

Title Access and Manipulate Comprehensive Country Level Data in Tidy Format

Version 0.0.1

Description A comprehensive and user-friendly interface for accessing, manipulating,
and analyzing country-level data from around the world. It allows users to retrieve detailed
information on countries, including names, regions, continents, populations, currencies, calling codes,
and more, all in a tidy data format. The package is designed to work seamlessly within
the 'tidyverse' ecosystem, making it easy to filter, arrange, and visualize country-level data in R.

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URL https://github.com/denironyx/tidycountries

BugReports https://github.com/denironyx/tidycountries/issues

Encoding UTF-8

LazyData true

RoxygenNote 7.3.2

Depends R (>= 3.5.0)

Imports dplyr, stringr

Suggests testthat (>= 3.0.0)

Config/testthat/edition 3

Config/Needs/website rmarkdown

NeedsCompilation no

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Repository CRAN

Date/Publication 2024-09-12 17:30:02 UTC

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Description

This function retrieves a list of countries where a specified currency is used. The function is case-insensitive and matches the currency name or part of the name. The output is ordered alphabetically by country name.

Usage

```
get_countries_by_currency(currency_input)
```

Arguments

currency_input	A character string representing the currency name or part of the name. The input is case-insensitive.

Value

A data frame containing the list of countries that use the specified currency, ordered alphabetically by country name. The columns include country codes (CCA2 and CCA3), common name, capital, continents, currency name, currency symbol, latitude, and longitude.

Note

The function utilizes the pre-loaded `restcountries_data` dataset. Ensure that this dataset is loaded before invoking the function. The function uses a case-insensitive regular expression to match the currency name, allowing partial matches.

Examples

```
# Example usage: Find all countries that use the Euro
euro_countries <- get_countries_by_currency("Euro")
print(euro_countries)

# Example usage: Find all countries that use a currency with "dollar" in its name
dollar_countries <- get_countries_by_currency("dollar")
```

```
print(dollar_countries)

# Example usage: Find all countries that use the Yen
yen_countries <- get_countries_by_currency("Yen")
print(yen_countries)
```

`get_countries_by_region` *get_countries_by_region*

Description

This function retrieves a list of countries based on a specified region, subregion, or continent. The function is case-insensitive and orders the countries alphabetically by their common names. If the input does not match any region, subregion, or continent, the function provides a list of all available regions, subregions, and continents.

Usage

```
get_countries_by_region(country_region_value)
```

Arguments

`country_region_value`
A character string representing the region, subregion, or continent. The input is case-insensitive.

Value

A data frame containing the list of countries within the specified region, subregion, or continent, ordered alphabetically by country name. If no match is found, a warning message is displayed, and a list of all available regions, subregions, and continents is provided.

Note

The function utilizes the pre-loaded `restcountries_data` dataset. Ensure that this dataset is loaded before invoking the function. The selected columns include country codes, names, capital, region, subregion, start of the week, car side, currencies, population, latitude, and longitude.

Examples

```
# Example usage: Get a list of countries in Africa
africa_countries <- get_countries_by_region("Africa")
print(africa_countries)

# Example usage: Get a list of countries in Western Europe (a subregion)
western_europe_countries <- get_countries_by_region("Western Europe")
print(western_europe_countries)
```

```
# Example usage: Get a list of countries in the continent of Asia
asia_countries <- get_countries_by_region("Asia")
print(asia_countries)
```

get_country_by_calling_code

get_country_by_calling_code

Description

This function retrieves information about countries based on a specified calling code or part of it. The input can be a root calling code, suffix, or a full calling code, and the function is case-insensitive.

Usage

```
get_country_by_calling_code(call_code)
```

Arguments

`call_code`	A character string representing the calling code, root calling code, or suffix. The input is case-insensitive.

Value

A data frame containing the list of countries that match the provided calling code. The columns include country codes (CCA2 and CCA3), common name, official name, capital, region, subregion, continents, currencies, calling code details (root, suffixes, and full calling code), and geographic coordinates (latitude and longitude).

Note

The function relies on the pre-loaded `restcountries_data` dataset. Ensure that this dataset is loaded before invoking the function. The function searches across the root calling code, suffixes, and full calling code using case-insensitive matching.

Examples

```
# Example usage: Find country information by root calling code
us_info <- get_country_by_calling_code("+1")
print(us_info)

# Example usage: Find country information by calling code suffix
uk_info <- get_country_by_calling_code("44")
print(uk_info)
```

```
# Example usage: Find country information by full calling code
india_info <- get_country_by_calling_code("+91")
print(india_info)
```

get_country_info *get_country_info*

Description

This function retrieves information about a specific country based on its country code (cca2 or cca3) or common name. The function is case-insentive and provides a comprehensive overview of the selected country If "all" is passed as the input, it returns data for all countries. If the input does not match any country, the function returns a list of all available country names.

Usage

```
get_country_info(country_value)
```

Arguments

country_value	A character string representing the country code(cca2 or cca3) or common name. The input is case-insensitive. If "all" is passed, the function return data for all countries.

Value

A data frame with selected country information. If the input is "all", it returns data for all countries. if no match is found, a list of all available country names is printed.

Note

A data frame with selected country information. If the input is "all", it returns data for all countries. if no match is found, a list of all available country names is printed

Examples

```
# Examples usage: Get information for Nigeria
nigeria_info <- get_country_info("Nigeria")
print(nigeria_info)

# Example usage: Get information for a country using it's cca2 code
usa_info <- get_country_info("US")
print(usa_info)
```

`restcountries_tidy_data` *restcountries_tidy_data*

Description

A dataset containing tidied information about countries from the Restcountries API.

Usage

```
restcountries_tidy_data
```

Format

A data frame with several rows and the following columns:

tld Top-level domain(s) associated with the country.

common_name Common name of the country.

official_name Official name of the country.

cca2 Country code (2-letter).

cca3 Country code (3-letter).

fifa FIFA code of the country.

independent Independence status (TRUE/FALSE).

status Country status (e.g., officially assigned).

un_member Whether the country is a UN member (TRUE/FALSE).

region Geographic region.

subregion Subregion.

population Population of the country.

capital Capital city of the country.

capital_lat Latitude of the capital city.

capital_lon Longitude of the capital city.

continents Continent(s) the country is part of.

lat Latitude of the country.

lon Longitude of the country.

landlocked Whether the country is landlocked (TRUE/FALSE).

borders Countries that share a border.

area Total area of the country in square kilometers.

start_of_week Day the week starts (e.g., Monday).

timezones Timezones applicable to the country.

root Root of the country calling code.

suffixes Suffixes of the country calling code.

car_side Which side of the road cars drive on.

googlemaps Google Maps link for the country.

openstreetmaps OpenStreetMap link for the country.

flags_png URL to PNG image of the country flag.

flags_svg URL to SVG image of the country flag.

flags_alt Alternative text for the country flag.

currencies Currencies used in the country.

languages Languages spoken in the country.

currency_name Name of the primary currency used.

currency_symbol Symbol of the primary currency used.

calling_code Calling code(s) associated with the country.

Details

This dataset includes a variety of country-level data such as country codes, names, capitals, regions, subregions, continents, currencies, population, geographic coordinates, languages, and more.

Source

Data obtained from the Restcountries Json file and processed for use in this package.

Examples

```
# Load the dataset and view the first few rows
data(restcountries_tidy_data)
head(restcountries_tidy_data)
```

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